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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,090		01/29/2004	Etsunori Fujita	9035.1021	4604
21831	7590	05/19/2005		EXAMINER	
STEINBERG & RASKIN, P.C. 1140 AVENUE OF THE AMERICAS, 15th FLOOR NEW YORK, NY 10036-5803				BURNHAM, SARAH C	
				ART UNIT	PAPER NUMBER
	,			3636	
				DATE MAILED: 05/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s)							
10/767,090 FUJITA ET AL.							
Office Action Summary Examiner Art Unit							
Sarah C. Burnham 3636							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered tin. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 28 April 2005.							
2a)⊠ This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to t	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1 and 3-18 is/are pending in the application.	Claim(s) <u>1 and 3-18</u> is/are pending in the application.						
4a) Of the above claim(s) 15-17 is/are withdrawn from consideration.	4a) Of the above claim(s) <u>15-17</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-12 and 18</u> is/are rejected.							
7) Claim(s) 13 and 14 is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) \boxtimes The drawing(s) filed on <u>29 January 2004</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form F	PTO-152.						
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (P	TO-152)						

DETAILED ACTION

Claim Objections

1. Claims 3-5 are objected to because of the following informalities: Claims 3-5 currently depend from a cancelled base claim. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-4, 6, 8-9 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mori (US 2003/0085600) in view of Mitchell (5,697,672). With respect to claim 1, Mori discloses a seat structure (1) including a back frame (21) and a cushion frame (3) comprising a flat-type supporting member (7) for the seat back (2) supported by said back frame (21); a tension adjusting mechanism (10) for adjusting a tension of said flat-type supporting member (7) for the seat back (2). Said tension adjusting mechanism (10) comprises a torsion bar (16) disposed in the vicinity of a bottom end of said back frame (21) along the width direction of the back frame (21) as is best depicted in Figure 1; and a pelvis support plate (52) composed of a plate member having a predetermined width and length, connectedly disposed with said torsion bar (16) as is best depicted in Figures 3-5, positioned in the rear of the pelvis of a seated person and enforced in a direction pushed forward in a normal state (see Figures 6 and

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7), said flat-type supporting member (7) for the seat back (2) is engaged with the vicinity of a bottom end of said pelvis supporting plate (52) at the bottom end thereof, and strained vertically on said back frame (21) by an elastic force of said torsion bar (16).

With respect to claim 3, said torsion bar (16) is connected to the vicinity of the bottom end of said pelvis supporting plate (52) as is best seen in Figures 3, 4, and 5.

With respect to claim 4, said pelvis supporting plate (52) is formed in a curved shape protruding backward at nearly central portion thereof in the width direction as is best depicted in Figures 6 and 7.

Mori discloses all claimed elements with the exception of a flat-type supporting member for the seat cushion elastically supported by said cushion frame separately from said flat-type supporting member for the seat back; coil springs between respective side portions and respective side frames; coil springs engaging said flat-type supporting member for the seat cushion with a frame; and a flat-type supporting member for the seat cushion and the seat back composed of a two-dimensional net member.

Mitchell discloses a seat cushion arrangement in Figure 3 with a flat-type supporting member (3)(4) the seat cushion elastically supported by said cushion frame (23) separately from a flat-type supporting member (1) for the seat back disclosed in Figures 1 and 2. Furthermore, Mitchell discloses coil springs (5) disposed between respective side portions (2) of said flat-type supporting member (1) and a seat back frame (un-illustrated). Furthermore, Mitchell discloses coil springs (5) which engage the flat-type supporting member (3)(4) for the seat cushion ((Figure 3) with the seat cushion frame (23). Finally, Mitchell discloses a flat-type supporting member (1) for the seat

back and a flat-type supporting member (3)(4) for the seat cushion that is made of a two dimensional net given the warp and weft style wires used to form the flat-type supporting members.

It would have been obvious to one of ordinary skill in the art at the time of the instant invention of include a seat cushion frame with a flat-type supporting member and coil springs supporting the flat-type supporting member on the back frame and cushion frames. Such a modification provides a mechanism for varying the contour of the seat cushion support and the seat back support to improve the comfort of the seat occupant.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mori (US 2003/0085600) in view of Mitchell (5,697,672) as applied to claim 1 above, and further in view of Yokota (5,044,693). As disclosed above, Mori, as modified, reveals all claimed elements with the exception of a pelvis support plate formed of synthetic resin, a three-dimensional net member, a two dimensional net member or rubber.

Yokota teaches the use of a pelvis support plate (4) supported on a torsion bar (11) and suspended by springs (7a)(7b) within a back frame. The support plate is made of "hard yet elastic synthetic resin (claim 3, line 39).

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use resin to make the pelvis support plate (52) disclosed by Mori as taught by Yokota. Resin is readily known in the art to be a durable and inexpensive material.

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5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mori (US 2003/0085600) in view of Mitchell (5,697,672) as applied to claim 1 above, and further in view of Kawasaki (US 2004/0130202). As disclosed above, Mori, as modified, reveals all claimed elements with the exception of a fabric spring connected to an upper end of said flat-type supporting member and hung over the upper frame portion of said seat back frame.

Kawasaki teaches the use of a fabric spring member (18) connected to a flat-type supporting member (8) and wrapped around a frame member (24) and fixed to the back of the flat type supporting member (8).

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use a fabric spring (18) as taught by Kawasaki to cover over the flat-type supporting member. Such a modification would create a soft and flexible support surface for the seat occupant.

6. Claims 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mori (US 2003/0085600) in view of Mitchell (5,697,672) as applied to claim 8 above, and in further view of Panicci (2,964,099). Mori, as modified, discloses all claimed elements with the exception of a first band member and a second band member.

With respect to claim 10, Panicci teaches the use of a first band member (42) for the seat cushion (6) is provided in layers at nearly central portion from front to back along the width direction on the back face of said flat-type support member (40) for the seat cushion. And connected to the vicinity of one side portion (unlabeled) of the flat-

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type supporting member (40) for the seat cushion (6) at one end, and engaged with a side frame (14) corresponding to the other side portion of the flat-type supporting member (40) for the seat cushion (6) at the other end.

With respect to claim 11, a second band member (40) for the seat cushion (6) is provided in layers in the vicinity of one side portion (unlabeled) of said flat-type supporting member (42) for the seat cushion in the direction from front to back, and connected to the vicinity of the front portion of the flat-type supporting member (42) for the seat cushion (6) at least at one end and engaged with the rear frame (50) at the other end, so that a setting height of the flat-type supporting member (42) for the seat cushion (6) is maintained at a predetermined height.

With respect to claim 12, the setting height of one side portion of said flat type supporting member (42) is higher than that of one side frame (14) corresponding to the one side portion of the flat-type supporting member (42) for the seat cushion (6) given the woven over and under configuration of the band member (40).

Allowable Subject Matter

7. Claims 13-14 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Amendment/Arguments

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8. The amendment filed on April 28, 2005 has been considered in its entirety. Remaining issues are detailed in the section above.

Applicant argues that Mori does not teach of suggest a torsion bar that absorbs the vibration inputted from the seat back. The Examiner construes element (16) discloses by Mori as a torsion bar. Webster's II New Riverside University Dictionary, 1994 edition, defines torsion bar as "a part of an automotive suspension consisting of a bar that twists to maintain stability," page 1220. Movement of sector gear (14) creates a twisting force on bar (16). Therefore, the Examiner considers element (16) disclosed by Mori to be a torsion bar. The claims do not require the torsion bar to absorb the vibration from the seat back. However, since the bar (16) is mounted on the seat back (21) it would inherently absorb a certain degree of vibration. The Examiner therefore maintains her rejection.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sarah C. Burnham whose telephone number is 571-

272-6854. The examiner can normally be reached on M-Th 7:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Cuomo can be reached on 571-272-6856. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

SCB May 9, 2005 Supervisory Patent Examiner

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